

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/616,241A  
Source: IFW0  
Date Processed by STIC: 11/26/03

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221**

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , EFS Submission User Manual - ePAVE)
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry directly to (EFFECTIVE 12/01/03):**  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202**

Revised 10/08/03

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/616,241A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1  Wrapped Nucleic  
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2  Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3  Misaligned Amino  
Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4  Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text.**

5  Variable Length Sequence(s)  contain n's or Xaa's representing more than one residue. Per Sequence Rules, **each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6  PatentIn 2.0  
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)  . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7  Skipped Sequences  
(OLD RULES) Sequence(s)  missing. If intentional, please insert the following lines for **each** skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8  Skipped Sequences  
(NEW RULES) Sequence(s)  missing. If intentional, please insert the following lines for **each** skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

9  Use of n's or Xaa's  
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10  Invalid <213>  
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11  Use of <220>  
→ Sequence(s)  missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12  PatentIn 2.0  
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13  Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/616,241A

DATE: 11/26/2003  
TIME: 10:42:25

Input Set : A:\ISIC0009-100.txt  
Output Set: N:\CRF4\11262003\J616241A.raw

3 <110> APPLICANT: Manoharan, Muthiah  
4 Griffey, Richard H.  
5 Baker, Brenda  
7 <120> TITLE OF INVENTION: Conjugated Oligomeric Compounds and Their Use in Gene  
8 Modulation  
10 <130> FILE REFERENCE: ISIC-0009-100  
> 12 <140> CURRENT APPLICATION NUMBER: US/10/616,241A  
> 12 <141> CURRENT FILING DATE: 2003-07-09  
12 <160> NUMBER OF SEQ ID NOS: 26  
14 <170> SOFTWARE: PatentIn version 3.2  
16 <210> SEQ ID NO: 1  
17 <211> LENGTH: 16  
18 <212> TYPE: PRT  
19 <213> ORGANISM: Artificial Sequence  
21 <220> FEATURE:  
22 <223> OTHER INFORMATION: Peptide  
24 <400> SEQUENCE: 1  
26 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys  
27 1 5 10 15  
31 <210> SEQ ID NO: 2  
32 <211> LENGTH: 13  
33 <212> TYPE: PRT  
34 <213> ORGANISM: Artificial Sequence  
36 <220> FEATURE:  
37 <223> OTHER INFORMATION: Peptide  
39 <400> SEQUENCE: 2  
41 Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln  
42 1 5 10  
45 <210> SEQ ID NO: 3  
46 <211> LENGTH: 27  
47 <212> TYPE: PRT  
48 <213> ORGANISM: Artificial Sequence  
50 <220> FEATURE:  
51 <223> OTHER INFORMATION: Peptide  
53 <400> SEQUENCE: 3  
55 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Ile Asn Leu  
56 1 5 10 15  
58 Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu  
59 20 25  
62 <210> SEQ ID NO: 4  
63 <211> LENGTH: 34  
64 <212> TYPE: PRT  
65 <213> ORGANISM: Artificial Sequence

pp 1-4  
Doc No. Comply  
Date (if any) \_\_\_\_\_  
insufficient response - see item 11 on Env  
summary  
sheet  
(give source of  
genetic material)

OK

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/616,241A

DATE: 11/26/2003

TIME: 10:42:25

Input Set : A:\ISIC0009-100.txt

Output Set: N:\CRF4\11262003\J616241A.raw

67 <220> FEATURE:  
68 <223> OTHER INFORMATION: Peptide - HSV VP22  
70 <400> SEQUENCE: 4  
72 Asp Ala Ala Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr  
73 1 5 10 15  
75 Glu Arg Pro Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro Arg Arg Pro  
76 20 25 30  
78 Val Glu  
81 <210> SEQ ID NO: 5  
82 <211> LENGTH: 18  
83 <212> TYPE: PRT  
84 <213> ORGANISM: Artificial Sequence  
86 <220> FEATURE:  
87 <223> OTHER INFORMATION: Peptide  
89 <400> SEQUENCE: 5  
91 Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Leu Lys  
92 1 5 10 15  
94 Leu Ala  
97 <210> SEQ ID NO: 6  
98 <211> LENGTH: 27  
99 <212> TYPE: PRT  
100 <213> ORGANISM: Artificial Sequence  
102 <220> FEATURE:  
103 <223> OTHER INFORMATION: Peptide  
105 <400> SEQUENCE: 6  
107 Gly Ala Leu Phe Leu Gly Trp Leu Gly Ala Ala Gly Ser Thr Met Gly  
108 1 5 10 15  
110 Ala Trp Ser Gln Pro Lys Lys Arg Lys Val  
111 20 25  
114 <210> SEQ ID NO: 7  
115 <211> LENGTH: 16  
116 <212> TYPE: PRT  
117 <213> ORGANISM: Artificial Sequence  
119 <220> FEATURE:  
120 <223> OTHER INFORMATION: Peptide  
122 <400> SEQUENCE: 7  
124 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro  
125 1 5 10 15  
128 <210> SEQ ID NO: 8  
129 <211> LENGTH: 7  
130 <212> TYPE: PRT  
131 <213> ORGANISM: Artificial Sequence  
133 <220> FEATURE:  
134 <223> OTHER INFORMATION: Peptide  
136 <400> SEQUENCE: 8  
138 Pro Lys Lys Lys Arg Lys Val  
139 1 5  
142 <210> SEQ ID NO: 9  
143 <211> LENGTH: 4

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/616,241A

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TIME: 10:42:25

Input Set : A:\ISIC0009-100.txt

Output Set: N:\CRF4\11262003\J616241A.raw

144 <212> TYPE: PRT  
145 <213> ORGANISM: Artificial Sequence  
147 <220> FEATURE:  
148 <223> OTHER INFORMATION: Peptide  
150 <400> SEQUENCE: 9  
152 Met Leu Phe Tyr  
153 1  
156 <210> SEQ ID NO: 10  
157 <211> LENGTH: 15  
158 <212> TYPE: PRT  
159 <213> ORGANISM: Artificial Sequence  
161 <220> FEATURE:  
162 <223> OTHER INFORMATION: Peptide - FXR2P  
164 <400> SEQUENCE: 10  
166 Pro Gln Arg Arg Asn Arg Ser Arg Arg Arg Arg Phe Arg Gly Gln  
167 1 5 10 15  
170 <210> SEQ ID NO: 11  
171 <211> LENGTH: 7  
172 <212> TYPE: PRT  
173 <213> ORGANISM: Artificial Sequence  
175 <220> FEATURE:  
176 <223> OTHER INFORMATION: Peptide  
178 <400> SEQUENCE: 11  
180 Ile Met Arg Arg Arg Gly Leu  
181 1 5  
184 <210> SEQ ID NO: 12  
185 <211> LENGTH: 11  
186 <212> TYPE: PRT  
187 <213> ORGANISM: Artificial Sequence  
189 <220> FEATURE:  
190 <223> OTHER INFORMATION: Peptide  
192 <400> SEQUENCE: 12  
194 Leu Gln Leu Pro Pro Leu Glu Arg Leu Thr Leu  
195 1 5 10  
198 <210> SEQ ID NO: 13  
199 <211> LENGTH: 11  
200 <212> TYPE: PRT  
201 <213> ORGANISM: Artificial Sequence  
203 <220> FEATURE:  
204 <223> OTHER INFORMATION: Peptide  
206 <400> SEQUENCE: 13  
208 Glu Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile  
209 1 5 10  
212 <210> SEQ ID NO: 14  
213 <211> LENGTH: 11  
214 <212> TYPE: PRT  
215 <213> ORGANISM: Artificial Sequence  
217 <220> FEATURE:  
218 <223> OTHER INFORMATION: Peptide

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/616,241A

DATE: 11/26/2003

TIME: 10:42:25

Input Set : A:\ISIC0009-100.txt

Output Set: N:\CRF4\11262003\J616241A.raw

220 <400> SEQUENCE: 14  
222 Asp Leu Gin Lys Lys Leu Glu Glu Leu Glu Leu  
223 1 5 10  
226 <210> SEQ ID NO: 15  
227 <211> LENGTH: 12  
228 <212> TYPE: PRT  
229 <213> ORGANISM: Artificial Sequence  
231 <220> FEATURE:  
232 <223> OTHER INFORMATION: Peptide  
234 <400> SEQUENCE: 15  
236 Ala Leu Pro His Ala Ile Met Arg Leu Asp Leu Ala  
237 1 5 10  
240 <210> SEQ ID NO: 16  
241 <211> LENGTH: 7  
242 <212> TYPE: PRT  
243 <213> ORGANISM: Artificial Sequence  
245 <220> FEATURE:  
246 <223> OTHER INFORMATION: Peptide  
248 <400> SEQUENCE: 16  
250 Pro Lys Lys Lys Arg Lys Val  
251 1 5  
254 <210> SEQ ID NO: 17  
255 <211> LENGTH: 13  
256 <212> TYPE: PRT  
257 <213> ORGANISM: Artificial Sequence  
259 <220> FEATURE:  
260 <223> OTHER INFORMATION: Peptide  
262 <400> SEQUENCE: 17  
264 Ala Leu Trp Lys Thr Leu Leu Lys Iys Val Leu Lys Ala  
265 1 5 10  
268 <210> SEQ ID NO: 18  
269 <211> LENGTH: 4  
270 <212> TYPE: PRT  
271 <213> ORGANISM: Artificial Sequence  
273 <220> FEATURE:  
274 <223> OTHER INFORMATION: Peptide  
276 <400> SEQUENCE: 18  
278 Lys Asp Glu Leu  
279 1  
281 <210> SEQ ID NO: 19  
282 <211> LENGTH: 21  
283 <212> TYPE: DNA  
284 <213> ORGANISM: Artificial Sequence  
286 <220> FEATURE:  
287 <223> OTHER INFORMATION: oligonucleotide  
289 <400> SEQUENCE: 19  
290 cgagaggcgg acgggaccgt t  
293 <210> SEQ ID NO: 20  
294 <211> LENGTH: 21

21

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/616,241A

DATE: 11/26/2003  
TIME: 10:42:25

Input Set : A:\ISIC0009-100.txt  
Output Set: N:\CRF4\11262003\J616241A.raw

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296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: oligonucleotide
301 <400> SEQUENCE: 20
302 ttgctctccg cctggccctgg c 21
305 <210> SEQ ID NO: 21
306 <211> LENGTH: 21
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: oligonucleotide - cRaf targeter
313 <400> SEQUENCE: 21
314 augcauqua caggcggat t 21
317 <210> SEQ ID NO: 22
318 <211> LENGTH: 21
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: oligonucleotide - cRaf targeter
325 <400> SEQUENCE: 22
326 uccccccugu gacaugcaut t 21
329 <210> SEQ ID NO: 23
330 <211> LENGTH: 18
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: antisense oligonucleotide
337 <400> SEQUENCE: 23
338 tgggagccat agcgaggc 18
341 <210> SEQ ID NO: 24
342 <211> LENGTH: 20
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <223> OTHER INFORMATION: oligonucleotide
349 <400> SEQUENCE: 24
350 tccgtcatcg ctcctcagg 20
353 <210> SEQ ID NO: 25
354 <211> LENGTH: 20
355 <212> TYPE: DNA
356 <213> ORGANISM: Artificial Sequence
358 <220> FEATURE:
359 <223> OTHER INFORMATION: oligonucleotide
361 <400> SEQUENCE: 25
362 gtgcgcgcga gccccgaaatc 20
365 <210> SEQ ID NO: 26
366 <211> LENGTH: 20
367 <212> TYPE: DNA

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**VERIFICATION SUMMARY**

PATENT APPLICATION: **US/10/616,241A**

DATE: 11/26/2003

TIME: 10:42:26

Input Set : **A:\ISIC0009-100.txt**

Output Set: **N:\CRF4\11262003\J616241A.raw**

2 M:270 C: Current Application Number differs, Replaced Current Application No  
2 M:271 C: Current Filing Date differs, Replaced Current Filing Date